

INTERNATIONAL SEARCH REPORT

International Application No.

PCT/EP 03/09112

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A23L1/302 C07D495/04 A61K31/16 A61K31/385 A61K31/045
A61K31/78 A23L1/30

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07D A61K A23L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, BIOSIS, FSTA, MEDLINE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X, P	<p>✓ WO 03 028747 A (MARTIN ROBERT ; HARRIS DENNIS H (US); GENERAL RONALD E (US)) 10 April 2003 (2003-04-10)</p> <p>page 3, line 6-11 page 4, line 6-8 page 8 claims 1,2,4</p>	<p>1,2,9, 10, 13-15, 21,22, 26,27</p>
P, X	<p>✓ WO 02 076436 A (MEIJER JAAP) 3 October 2002 (2002-10-03)</p> <p>page 3; table 1 page 4, line 14 -page 5, line 3 examples 1A,2A,3A,6A,7A</p> <p style="text-align: center;">-/--</p>	<p>1,2,9, 10,13, 14,21,22</p>

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

& document member of the same patent family

Date of the actual completion of the international search

20 November 2003

Date of mailing of the international search report

12/12/2003

Name and mailing address of the ISA

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 203 819 B1 (FINE STUART A) 20 March 2001 (2001-03-20) column 9, line 19 -column 10, line 56	1,2, 9-14, 18-27
A	column 8, line 62 -column 10, line 56 ---	3-8,15
X	US 6 103 756 A (GORSEK WAYNE F) 15 August 2000 (2000-08-15) column 1, line 8,64 claims 1,2; table 1	1,2,9-27
A	column 1-2 ---	3-8
X	WO 02 47493 A (AVENTIS PHARMA GMBH) 20 June 2002 (2002-06-20) page 29-33 page 35 claims 1,3	1,2,9-27
A	page 29-33 ---	3-8,15
X	US 5 976 568 A (RILEY PATRICIA A) 2 November 1999 (1999-11-02) column 6, line 63 -column 7, line 1 column 20, line 42 -column 21, line 20 claims 1,2	1,2,5, 9-14, 16-27
A	column 19-28 ---	3-8,15
X	US 6 291 533 B1 (FLEISCHNER ALBERT M) 18 September 2001 (2001-09-18) column 15; claims 13-16 column 2, line 33-36	1,2,5,9, 10,13, 14,18-23
A	column 5-24 ---	3,4,6-8, 17,24-27
X	US 5 922 704 A (BLAND JEFFREY) 13 July 1999 (1999-07-13) table 2	1,2,5,6, 9-14, 16-23
A	column 3-4 ---	3,4,7,8, 15,24-27
A	MCCARTY M F: "TOWARD PRACTICAL PREVENTION OF TYPE 2 DIABETES" MEDICAL HYPOTHESES; EDEN PRESS, PENRITH, US, vol. 54, no. 5, May 2000 (2000-05), pages 786-793, XP001019681 ISSN: 0306-9877 page 789-790 ---	1-27
A	EP 1 177 789 A (ROCHE VITAMINS AG) 6 February 2002 (2002-02-06) paragraphs '0014!-'0017! ---	1-27
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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>✓ DATABASE BIOSIS 'Online! BIOSCIENCES INFORMATION SERVICE, PHILADELPHIA, PA, US; 1999 MCCARTY MF: "High-dose biotin, an inducer of glucokinase expression, may synergize with chromium picolinate to enable a definitive nutritional therapy for type-II diabetes" Database accession no. PREV199900343017 XP002262310 abstract</p>	1-27

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Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: —
because they relate to subject matter not required to be searched by this Authority, namely:
see FURTHER INFORMATION sheet PCT/ISA/210
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.1

Although claims 26-27 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the composition.

Continuation of Box I.1

Rule 39.1(iv) PCT - Method for treatment of the human or animal body by therapy

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Information on patent family members

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 03028747	A	10-04-2003	WO 03028747 A1	10-04-2003
			US 2003068391 A1	10-04-2003
WO 02076436	A	03-10-2002	NL 1017707 C2	01-10-2002
			WO 02076436 A2	03-10-2002
US 6203819	B1	20-03-2001	US 5962030 A	05-10-1999
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WO 0247493	A	20-06-2002	DE 10109798 A1	12-09-2002
			EP 1214893 A1	19-06-2002
			AU 2193402 A	24-06-2002
			WO 0247493 A2	20-06-2002
			EP 1355539 A2	29-10-2003
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			US 6503529 B1	07-01-2003
US 5922704	A	13-07-1999	NONE	
EP 1177789	A	06-02-2002	EP 1177789 A2	06-02-2002
			BR 0103209 A	26-03-2002
			CA 2353805 A1	04-02-2002
			CN 1365667 A	28-08-2002
			JP 2002104964 A	10-04-2002
			US 2002082298 A1	27-06-2002